

Liolaemus pseudolemniscatus Lamborot and Ortiz, 1990 (Squamata: Liolaemidae): Distribution extension in Central Chile

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ABSTRACT: *Liolaemus pseudolemniscatus* (Lamborot and Ortiz 1990) is a poorly known species. Two specimens were collected in “Cerro Provincia”, central Chile, expanding in 136 km (straight line) its latitudinal distribution and in 800 m its altitudinal distribution. This record adds a new species of *Liolaemus* lizard for the “Región Metropolitana”, Chile.

The genus *Liolaemus* (Wiegmann 1834) comprises a total of 223 species of wide distribution from the high Andes of central Perú to “Tierra del Fuego”, and from sea level to more than 5000 m (Lobo *et al.* 2010). In Chile at least 88 species have been registered (Vidal *et al.* 2008).

Liolaemus pseudolemniscatus (Lamborot and Ortiz 1990) belongs to the subgenus *Liolaemus* and the *nigromaculatus* group (Lobo 2005). It is a small lizard of 45 to 52 mm snout-vent length with a thin and elongated body. It has a brown head with dark spots and an occipital gray band from occiput to base of tail.

The species is named for its resemblance to other species that inhabits central Chile, *L. lemniscatus* (Gravenhorst 1838). However, *L. pseudolemniscatus* has granular and rounded lateral neck scales, which are lanceolate, imbricate and carinate in *L. lemniscatus* (Figure 1), and the dorsal scales are less keeled in *L. pseudolemniscatus*. *L. pseudolemniscatus* presents a Y-shaped lateral neck fold (absent in *L. lemniscatus*), and an occipital grey

band, which is yellowish-brown in *L. lemniscatus* (Figure 2). Moreover, *L. pseudolemniscatus* has a higher number of chromosomes ($2n = 44$) than *L. lemniscatus* ($2n = 34$) (Lamborot and Ortiz 1990).

Liolaemus pseudolemniscatus is distributed from the surroundings of “Bahia Totoralillo” (30°04’ S, 71°22’ W) to “Hierro Viejo” (32°16’ S, 71°00’ W) in central Chile, between 25 and 1300 m, (Lamborot and Ortiz 1990; Pincheira-Donoso and Núñez 2005). In addition, Mella (2005) mentioned a “probable record” from “El Arrayán” (33°20’ S, 70°28’ W), located 120 km south (straight line) from the known distribution limit and 2000 m above sea level. The species is not included in the IUCN Red List of Threatened Species (IUCN 2010).

During a field trip to “Cerro Provincia” mountain (33°23’S, 70°27’ W), several specimens of *L. pseudolemniscatus* were found between 1600 and 2100 m. This mountain is located 135 km south (straight line) from the known distribution limit of this species (Figure

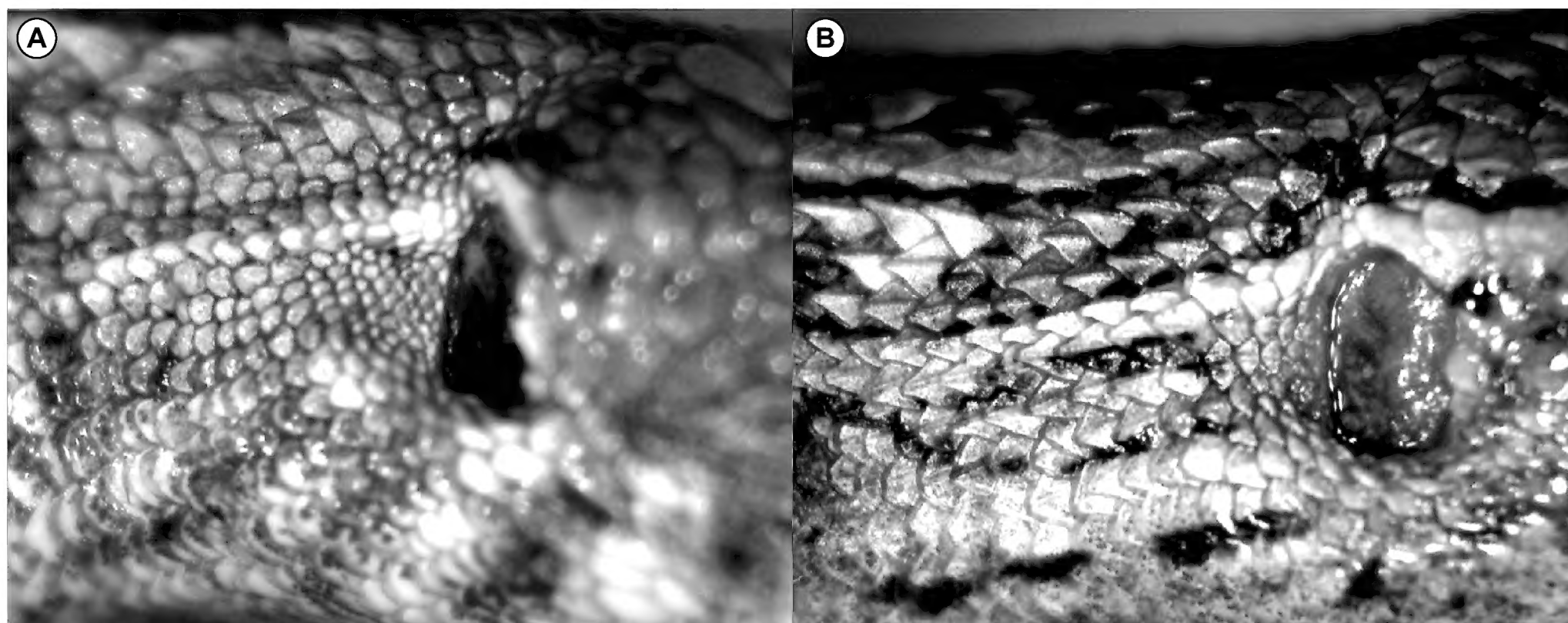


FIGURE 1. Lateral neck scales in (A) *Liolaemus pseudolemniscatus* (Re-0031) and (B) *Liolaemus lemniscatus* (Re-0052).

3). Two individuals were collected (male and female) and deposited in the “Colección de Flora y Fauna Prof. Patricio Sánchez Reyes, Universidad Católica de Chile”, (SSUC Re-0030–31). Morphological measurements were taken with a digital vernier calliper of precision 0.02 mm (Table 1). The male presented three precloacal pores. Several specimens of *L. lemniscatus* were examined for comparison (SSUC 0052, MRC 0210-219).

In repeated visits to the mountain, new individuals were observed in winter, spring and summer, during sunny days, in bushes (*Adesmia* sp., *Ephedra chilensis*, *Proustia pungens*) or in small rocks. It was found in sympatry with *L. fuscus*, *L. monticola* and *L. nitidus*. This record expands

the southern limit of this species in 136 km and the altitudinal distribution limit in 800 m. The unconfirmed record from “El Arrayán” (Mella 2005) is consistent with this finding. With this record a new species of *Liolaemus* for the “Región Metropolitana” in Chile is added.

TABLE 1. Morphological measurements (in mm) for collected specimens of *Liolaemus pseudolemniscatus*. SVL: snout-vent length, HL: head length, HW: Head width, AGD: Axilla-groin distance.

	SVL	HL	HW	AGD
Male (Re-0030)	54.2	14.2	8.9	24.4
Female (Re-0031)	47.1	11.4	6.7	21.9

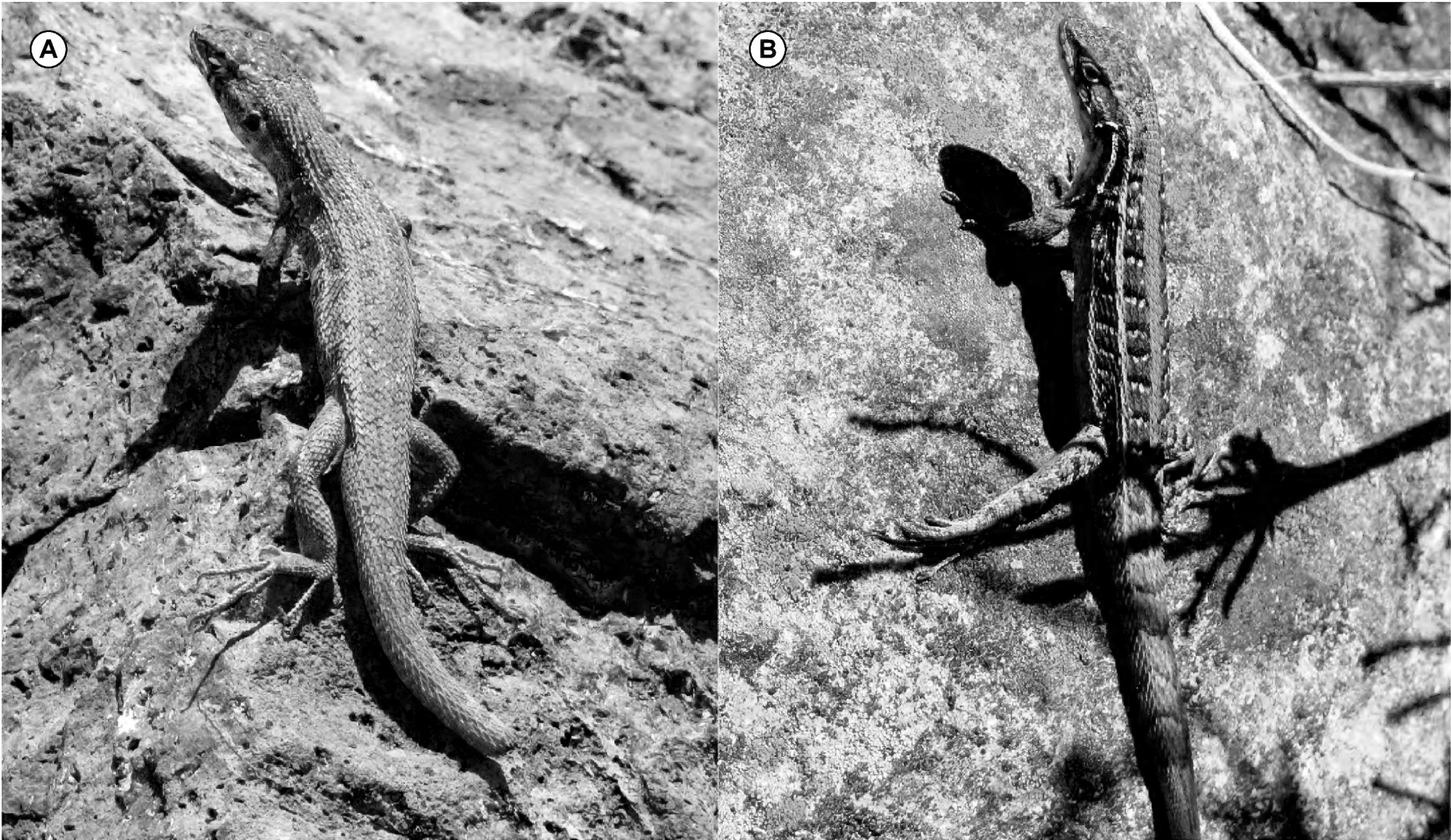


FIGURE 2. View of dorsal pattern coloration in life. (A) Adult male of *Liolaemus pseudolemniscatus* (Re-0030). (B) Adult male of *Liolaemus lemniscatus* from Machalí.

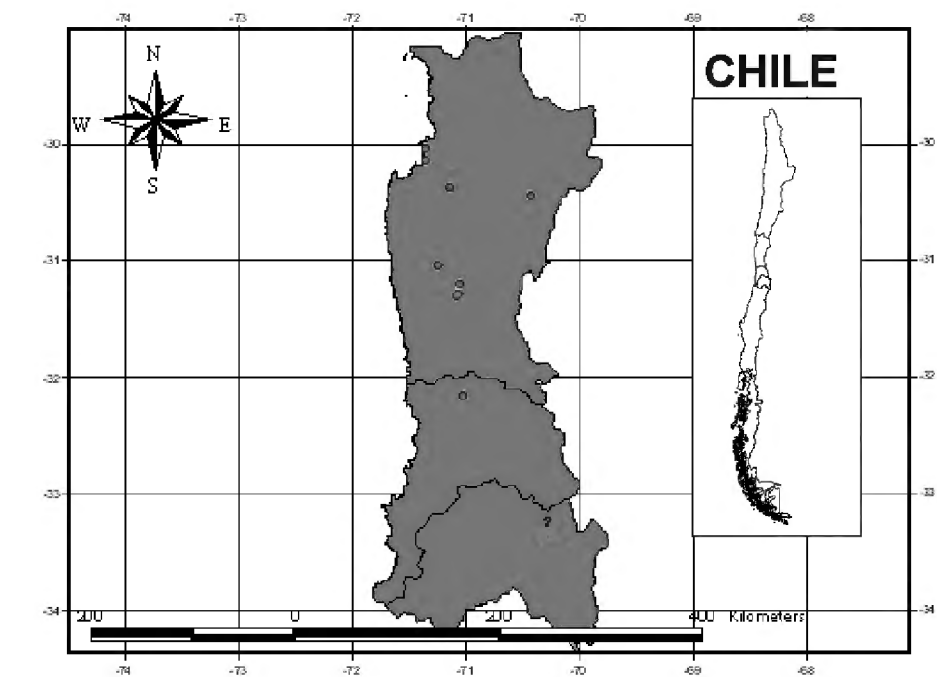


FIGURE 3. Distribution of *Liolaemus pseudolemniscatus*. The administrative boundaries of the three regions of central Chile where the species is located (from north to south: Coquimbo, Valparaíso and Metropolitana) are shown. The blue points show previously known localities (Lamborot and Ortiz 1990; Pincheira-Donoso and Núñez 2005), the green question mark shows a “probable record” (Mella 2005) and the red point shows the new record reported here.

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